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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A nitrogen-containing fused-ring derivative represented by the following general formula (I):

wherein

 R^1 represents a hydrogen atom, a C_{1-6} alkyl group, a halo(C_{1-6} alkyl) group, a hydroxy(C_{1-6} alkyl) group, a C_{1-6} alkyl) group, a C_{1-6} alkyl) group, a C_{2-7} alkoxycarbonyl(C_{1-6} alkyl) group, a carboxy(C_{1-6} alkyl) group, a C_{2-6} alkenyl group, -J-N(R^5)- Z^1 , -J-CON(R^5)- Z^1 , or any of the following substituents (a) to (d) which may have any 1 to 3 substituents selected from the later identified substituent group $\Box \underline{\alpha}$ on the ring;

(a) a C_{3-7} cycloalkyl group, (b) a C_{3-7} cycloalkyl(C_{1-6} alkyl) group, (c) a C_{6-10} aryl group or (d) a C_{1-6} aryl(C_{6-10} alkyl) group,

R² represents a hydrogen atom, a halogen atom or a C₁₋₆ alkyl group;

R³ and R⁴ independently represent a hydrogen atom, a hydroxy group, a halogen atom, a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, a C₂₋₆ alkynyl group, a C₁₋₆ alkoxy group, a C₂₋₆ alkenyloxy group, a C₁₋₆ alkylthio group, a C₂₋₆ alkenylthio group, a halo(C₁₋₆ alkyl) group, a halo(C₁₋₆ alkyl) group, a hydroxy(C₁₋₆ alkyl) group, a hydroxy(C₂₋₆

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6 alkenyl) group, a hydroxy(C₁₋₆ alkoxy) group, a hydroxy(C₁₋₆ alkylthio) group, a carboxy group, a carboxy(C₁₋₆ alkyl) group, a carboxy(C₁₋₆ alkoxy) group, a carboxy(C₁₋₆ alkylthio) group, a C₂₋₇ alkoxycarbonyl group, a C₂₋₇ alkoxycarbonyl(C₁₋₆ alkyl) group, a C₂₋₇ alkoxycarbonyl(C₁₋₆ alkenyl) group, a C₂₋₇ alkoxycarbonyl(C₁₋₆ alkoxy) group, a C₂₋₇ alkoxycarbonyl(C₁₋₆ alkylthio) group, a C₁₋₆ alkylsulfinyl group, a C₁₋₆ alkylsulfonyl group, -U-V-W-N(R⁶)-Z², or any of the following substituents (i) to (xxviii) which may have any 1 to 3 substituents selected from the later identified substituent group α on the ring;

(i) a C₆₋₁₀ aryl group, (ii) C₆₋₁₀ aryl-O-, (iii) C₆₋₁₀ aryl-S-, (iv) a C₆₋₁₀ aryl(C₁₋₆ alkyl) group, (v) a C₆₋₁₀ aryl(C₁₋₆ alkoxy) group, (vi) a C₆₋₁₀ aryl(C₁₋₆ alkylthio) group, (vii) a heteroaryl group, (viii) heteroaryl-O-, (ix) heteroaryl-S-, (x) a heteroaryl(C₁₋₆ alkyl) group, (xi) a heteroaryl(C₁₋₆ alkoxy) group, (xii) a heteroaryl(C₁₋₆ alkylthio) group, (xiii) a C₃₋₇ cycloalkyl group, (xiv) C₃₋₇ cycloalkyl-O-, (xv) C₃₋₇ cycloalkyl-S-, (xvi) a C₃₋₇ cycloalkyl(C₁₋₆ alkyl) group, (xvii) a C₃₋₇ cycloalkyl(C₁₋₆ alkyl) group, (xix) a heterocycloalkyl group, (xx) heterocycloalkyl-O-, (xxi) heterocycloalkyl-S-, (xxii) a heterocycloalkyl(C₁₋₆ alkyl) group, (xxiii) a naromatic cyclic amino group, (xxvi) an aromatic cyclic amino (C₁₋₆ alkoxy) group, or (xxviii) an aromatic cyclic amino (C₁₋₆ alkoxy) group, or (xxviiii) an aromatic cyclic amino (C₁₋₆ alkylthio) group, or (xxviii)

J represents a C_{1-6} alkylene group which may have a hydroxy group, or a C_{2-6} alkenylene group;

U represents -O-, -S- or a single bond and with the proviso that at least one of V and W is not a single bond when U is -O- or -S-);

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V represents a C_{1-6} alkylene group which may have a hydroxy group, a C_{2-6} alkenylene group or a single bond;

W represents -CO-, -SO₂-, -C(=NH)- or a single bond;

 Z^1 and Z^2 independently represent a hydrogen atom, a C_{2-7} alkoxycarbonyl group, a C_{6-10} aryl(C_{2-7} alkoxycarbonyl) group, a formyl group, $-R^A$, $-COR^B$, $-SO_2R^B$, $-CON(R^C)R^D$, $-CSN(R^C)R^D$, $-SO_2NHR^A$ or $-C(=NR^E)N(R^F)R^G$;

 R^5 , R^6 , R^A , R^C and R^D independently represent a hydrogen atom, a C_{1-6} alkyl group which may have any 1 to 5 substituents selected from the later identified substituent group β or any of the following substituents (xxix) to (xxxii) which may have any 1 to 3 substituents selected from the later identified substituent group α ;

(xxix) a C₆₋₁₀ aryl group, (xxx) a heteroaryl group, (xxxi) a C₃₋₇ cycloalkyl group or (xxxii) a heterocycloalkyl group,

or both of Z^1 and R^5 or both of Z^2 and R^6 bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have any 1 to 3 substituents selected from the later identified substituent group α ;

or $R^{\mathbb{C}}$ and $R^{\mathbb{D}}$ bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have any 1 to 3 substituents selected from the later identified substituent group α ;

 R^B represents a C_{2-7} alkoxycarbonyl group, a C_{1-6} alkylsulfonylamino group, a C_{6-10} arylsulfonylamino group, a C_{1-6} alkyl group which may have any 1 to 5 substituents selected from the later identified substituent group β or any of the following substituents (xxxiii) to (xxxvi) which may have any 1 to 3 substituents selected from the later identified substituent group α ;

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(xxxiii) a C₆₋₁₀ aryl group, (xxxiv) a heteroaryl group, (xxxv) a C₃₋₇ cycloalkyl group or (xxxvi) a heterocycloalkyl group,

 R^E , R^F and R^G independently represent a hydrogen atom, a cyano group, a carbamoyl group, a C_{2-7} acyl group, a C_{2-7} alkoxycarbonyl group, a C_{6-10} aryl(C_{2-7} alkoxycarbonyl) group, a nitro group, a C_{1-6} alkylsulfonyl group, a sulfamoyl group, a carbamimidoyl group or a C_{1-6} alkyl group which may have any 1 to 5 substituents selected from the later identified substituent group α ;

or RE and RF bind together to form an ethylene group;

or R^F and R^G bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have a substituent selected from the later identified substituent group α ;

Y represents CH or N;

Q represents - C_{1-6} alkylene-, - C_{2-6} alkenylene-, - C_{2-6} alkylene-O-, - C_{1-6} alkylene-O-, - C_{1-6} alkylene-, - C_{1-6} alkylene-; or - C_{1-6} alkylene-;

R⁷ represents a hydrogen atom or a C₁₋₆ alkyl group;

ring A represents a C₆₋₁₀ aryl group or a heteroaryl group;

G represents a group represented by a formula:

or a formula:

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HO OH
$$(G-2)$$

E¹ represents a hydrogen atom, a fluorine atom or a hydroxy group;

E² represents a hydrogen atom, a fluorine atom, a methyl group or a hydroxymethyl group;

substituent group α:

a halogen atom, a hydroxy group, an amino group, a C₁₋₆ alkyl group, a C₁₋₆ alkoxy group, a halo(C₁₋₆ alkyl) group, a halo(C₁₋₆ alkoxy)group, a hydroxy(C₁₋₆ alkyl) group, a C₂₋₇ alkoxycarbonyl(C₁₋₆ alkyl) group, a hydroxy(C₁₋₆ alkoxy) group, an amino(C₁₋₆ alkyl) group, an amino(C₁₋₆ alkoxy) group, a mono or di[hydroxy(C₁₋₆ alkyl)]amino group, a C₁₋₆ alkylsulfonyl group, a C₁₋₆ alkylsulfonylamino group, a C₁₋₆ alkylsulfonylamino group, a C₁₋₆ alkylsulfonylamino(C₁₋₆ alkyl) group, a carboxy group, a C₂₋₇ alkoxycarbonyl group, a sulfamoyl group and –CON(R^H)R^I

substituent group β:

a halogen atom, a hydroxy group, an amino group, a C₁₋₆ alkoxy group, a C₁₋₆ alkylthio group, a halo(C₁₋₆ alkoxy) group, a halo(C₁₋₆ alkylthio) group, a hydroxy(C₁₋₆ alkoxy) group, a hydroxy(C₁₋₆ alkylthio) group, an amino(C₁₋₆ alkoxy) group, an amino(C₁₋₆ alkylthio) group, a mono or di(C₁₋₆ alkyl)amino group, a mono or di[hydroxy(C₁₋₆ alkyl)]amino group, an ureido group, a sulfamide group, a mono or di(C₁₋₆ alkyl)ureido group, a mono or di[hydroxy(C₁₋₆ alkyl)]-sulfamide group, a c₂₋₇ acylamino group, an amino(C₂₋₇ acylamino) group, a C₁₋₆ alkylsulfonyl

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group, a C_{1-6} alkylsulfonylamino group, a carbamoyl(C_{1-6} alkylsulfonylamino) group, a carboxy group, a C_{2-7} alkoxycarbonyl group, -CON(R^H) R^I , and any of the following substituents (xxxvii) to (xxxxviii) which may have any 1 to 3 substituents selected from the above substituent group α on the ring;

(xxxvii) a C₆₋₁₀ aryl group, (xxxviii) C₆₋₁₀ aryl-O-, (xxxix) a C₆₋₁₀ aryl(C₁₋₆ alkoxy) group, (xxxx) a C₆₋₁₀ aryl(C₁₋₆ alkylthio) group, (xxxxi) a heteroaryl group, (xxxxii) heteroaryl-O-, (xxxxiii) a C₃₋₇ cycloalkyl group, (xxxxiv) C₃₋₇ cycloalkyl-O-, (xxxxv) a heterocycloalkyl group, (xxxxvi) heterocycloalkyl-O-, (xxxxvii) an aliphatic cyclic amino group or (xxxxviii) an aromatic cyclic amino group

 R^H and R^I independently represent a hydrogen atom or a C_{1-6} alkyl group which may have any 1 to 3 substituents selected from the later identified substituent group γ ;

or both of R^H and R^I bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have any 1 to 3 substituents selected from the later identified substituent group δ ;

substituent group γ:

a halogen atom, a hydroxy group, an amino group, a C_{1-6} alkoxy group, a halo(C_{1-6} alkoxy) group, a hydroxy(C_{1-6} alkoxy) group, an amino(C_{1-6} alkoxy) group, a mono or di(C_{1-6} alkyl)amino group, a mono or di[hydroxy(C_{1-6} alkyl)]amino group, an ureido group, a sulfamide group, a mono or di(C_{1-6} alkyl)ureido group, a mono or di[hydroxy(C_{1-6} alkyl)]ureido group, a mono or di[hydroxy(C_{1-6} alkyl)]sulfamide group, a C_{2-7} acylamino group, an amino(C_{2-7} acylamino) group, a C_{1-6} alkylsulfonylamino group, a carbamoyl(C_{1-6} alkylsulfonylamino) group, a carboxy group, a C_{2-7} alkoxycarbonyl group and - $CON(R^3)R^K$

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substituent group δ:

a halogen atom, a hydroxy group, an amino group, a C_{1-6} alkyl group, a C_{1-6} alkoxy group, a halo(C_{1-6} alkyl) group, a halo(C_{1-6} alkoxy) group, a hydroxy(C_{1-6} alkyl) group, a C_{2-7} alkoxycarbonyl(C_{1-6} alkyl) group, a hydroxy(C_{1-6} alkoxy) group, an amino(C_{1-6} alkyl) group, an amino(C_{1-6} alkoxy) group, a mono or di(C_{1-6} alkyl)amino group, a mono or di[hydroxy(C_{1-6}

alkyl)]amino group, a C_{1-6} alkylsulfonyl group, a C_{1-6} alkylsulfonylamino group, a C_{1-6}

alkylsulfonylamino(C1-6 alkyl) group, a carboxy group, a C2-7 alkoxycarbonyl group, a sulfamoyl

group and -CON(R^J)R^K

 R^{J} and R^{K} independently represent a hydrogen atom or a C_{1-6} alkyl group which may have any 1 to 3 substituents selected from a hydroxy group, an amino group, a mono or di(C_{1-6}

or both of R^J and R^K bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have any 1 to 3 substituents selected from a hydroxy group, an amino group, a mono or $di(C_{1-6}$ alkyl)amino group, a C_{1-6} alkyl group, a hydroxy(C_{1-6} alkyl) group, a C_{2-7} alkoxycarbonyl group, a C_{2-7} alkoxycarbonyl group, a carbamoyl group,

or a pharmaceutically acceptable salt thereof, or a prodrug-thereof.

alkyl)amino group, a C2-7 alkoxycarbonyl group and a carbamoyl group;

2. (currently amended): A nitrogen-containing fused-ring derivative as claimed in claim 1, wherein Q represents an ethylene group, or a pharmaceutically acceptable salt thereof, or a prodrug thereof.

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3. (currently amended): A nitrogen-containing fused-ring derivative as claimed in claim 1, wherein Q represents a methylene group, or a pharmaceutically acceptable salt thereof, or a prodrug thereof.

4. (currently amended): A nitrogen-containing fused-ring derivative as claimed in claim 1, wherein G represents a group represented by the formula:

, or a pharmaceutically acceptable salt thereof, or a prodrug thereof.

- 5. (currently amended): A nitrogen-containing fused-ring derivative as claimed in claim 1, wherein ring A represents a group derived from a benzene ring, a pyridine ring, a pyrimidine ring, a pyridizine ring, or a pharmaceutically acceptable salt thereof, or a prodrug thereof.
- 6. (currently amended): A nitrogen-containing fused-ring derivative as claimed in claim 5, wherein the ring A represents a benzene ring, or a pharmaceutically acceptable salt thereof, or a prodrug-thereof.
- 7. (currently amended): A nitrogen-containing fused-ring derivative as claimed in claim 5, wherein the ring A represents a pyridine ring, or a pharmaceutically acceptable salt thereof, or a prodrug thereof.

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8. (currently amended): A nitrogen-containing fused-ring derivative as claimed in claim 5, wherein R^3 represents a hydrogen atom, a halogen atom or a C_{1-6} alkyl group; R^4 represents a hydrogen atom, a hydroxy group, a halogen atom, a C_{1-6} alkyl group, a C_{1-6} alkoxy group, a C_{1-6} alkylthio group, a hydroxy(C_{1-6} alkyl) group, a C_{3-7} cycloalkyl group, or $-U^a-V^a-W^a-N(R^{6a})-Z^{2a}$; U^a represents -O- or a single bond and with the proviso that at least one of V^a and W^a does not represents a single bond when U^a represents -O-; V^a represents a C_{1-6} alkylene group, a C_{2-6} alkenylene group or a single bond; W^a represents -CO- or a single bond; Z^{2a} represents a hydrogen atom, $-R^{Aa}$, $-CON(R^5)R^D$, or $-C(=NR^E)N(R^F)R^G$; R^{6a} and R^{Aa} independently represent a hydrogen atom, or a C_{1-6} alkyl group which may have any 1 to 5 groups selected from the later identified substituent group β ; R^C and R^D independently represent a hydrogen atom, a C_{1-6} alkyl group which may have any 1 to 5 groups selected from the later identified substituent group β , or any of the following substituents (xxix) to (xxxii) which may have any 1 to 3 substituents selected from the later identified substituent

(xxix) a C_{6-10} aryl group, (xxx) a heteroaryl group, (xxxi) a C_{3-7} cycloalkyl group or (xxxii) a heterocycloalkyl group,

or R^C and R^D bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have any 1 to 3 substituents selected from the later identified substituent group α ; R^E , R^F and R^G independently represent a hydrogen atom, a cyano group, a carbamoyl group, a C_{2-7} acyl group, a C_{2-7} alkoxycarbonyl group, a C_{6-10} aryl(C_{2-7} alkoxycarbonyl) group, a nitro group, a C_{1-6} alkylsulfonyl group, a sulfamoyl group, a carbamimidoyl group or a C_{1-6} alkyl group which may have any 1 to 5 substituents selected from the later identified substituent group β ; or R^E and R^F bind together to form an ethylene group; or

RF and RG bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have a substituent selected from the following substituent group α;

substituent group a:

a halogen atom, a hydroxy group, an amino group, a C₁₋₆ alkyl group, a C₁₋₆ alkoxy group, a halo(C₁₋₆ alkyl) group, a halo(C₁₋₆ alkoxy)group, a hydroxy(C₁₋₆ alkyl) group, a C₂₋₇ alkoxycarbonyl(C₁₋₆ alkyl) group, a hydroxy(C₁₋₆ alkoxy) group, an amino(C₁₋₆ alkyl) group, an amino(C₁₋₆ alkoxy) group, a mono or di(C₁₋₆ alkyl)amino group, a mono or di[hydroxy(C₁₋₆ alkyl)]amino group, a C1-6 alkylsulfonyl group, a C1-6 alkylsulfonylamino group, a C1-6 alkylsulfonylamino (C₁₋₆ alkyl) group, a carboxy group, a C₂₋₇ alkoxycarbonyl group, a sulfamoyl group and -CON(R^H)R^I

substituent group β:

a halogen atom, a hydroxy group, an amino group, a C₁₋₆ alkoxy group, a C₁₋₆ alkylthio group, a halo(C₁₋₆ alkoxy) group, a halo(C₁₋₆ alkylthio) group, a hydroxy(C₁₋₆ alkoxy) group, a hydroxy(C_{1-6} alkylthio) group, an amino(C_{1-6} alkoxy) group, an amino(C_{1-6} alkylthio) group, a mono or di(C₁₋₆ alkyl)amino group, a mono or di[hydroxy(C₁₋₆ alkyl)]amino group, an ureido group, a sulfamide group, a mono or di(C1-6 alkyl)ureido group, a mono or di[hydroxy(C1-6 alkyl)]ureido group, a mono or $di(C_{1-6}$ alkyl)sulfamide group, a mono or $di[hydroxy(C_{1-6}$ alkyl)]sulfamide group, a C2-7 acylamino group, an amino(C2-7 acylamino) group, a C1-6 alkylsulfonyl group, a C₁₋₆ alkylsulfonylamino group, a carbamoyl(C₁₋₆ alkylsulfonylamino) group, a carboxy group, a C₂₋₇ alkoxycarbonyl group, -CON(R^H)R^I, and any of the following substituents (xxxvii) to (xxxxviii) which may have any 1 to 3 substituents selected from the above substituent group a on the ring;

(xxxvii) a C₆₋₁₀ aryl group, (xxxviii) C₆₋₁₀ aryl-O-, (xxxix) a C₆₋₁₀ aryl(C₁₋₆ alkoxy) group, (xxxx) a C₆₋₁₀ aryl(C₁₋₆ alkylthio) group, (xxxxi) a heteroaryl group, (xxxxii) heteroaryl-O-, (xxxxiii) a C₃₋₇ cycloalkyl group, (xxxxiv) C₃₋₇ cycloalkyl-O-, (xxxxv) a heterocycloalkyl group, (xxxxvi) heterocycloalkyl-O-, (xxxxvii) an aliphatic cyclic amino group or (xxxxviii) an aromatic cyclic amino group,

 R^H and R^I independently represent a hydrogen atom or a C_{1-6} alkyl group which may have any 1 to 3 substituents selected from the later identified substituent group γ ; or both of R^H and R^I bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have any 1 to 3 substituents selected from the later identified substituent group δ ;

substituent group γ:

a halogen atom, a hydroxy group, an amino group, a C_{1-6} alkoxy group, a halo(C_{1-6} alkoxy) group, a hydroxy(C_{1-6} alkoxy) group, an amino(C_{1-6} alkoxy) group, a mono or di(C_{1-6} alkyl)amino group, a mono or di[hydroxy(C_{1-6} alkyl)]amino group, an ureido group, a sulfamide group, a mono or di(C_{1-6} alkyl)ureido group, a mono or di[hydroxy(C_{1-6} alkyl)]ureido group, a mono or di[hydroxy(C_{1-6} alkyl)]sulfamide group, a C_{2-7} acylamino group, an amino(C_{2-7} acylamino) group, a C_{1-6} alkylsulfonylamino group, a carbamoyl(C_{1-6} alkylsulfonylamino) group, a carboxy group, a C_{2-7} alkoxycarbonyl group and - $CON(R^J)R^K$

substituent group δ:

a halogen atom, a hydroxy group, an amino group, a C₁₋₆ alkyl group, a C₁₋₆ alkoxy group, a halo(C₁₋₆ alkyl) group, a halo(C₁₋₆ alkoxy) group, a hydroxy(C₁₋₆ alkyl) group, a C₂₋₇ alkoxycarbonyl(C₁₋₆ alkyl) group, a hydroxy(C₁₋₆ alkoxy) group, an amino(C₁₋₆ alkyl) group, an amino(C₁₋₆ alkyl) group, a mono or di(C₁₋₆ alkyl)amino group, a mono or di[hydroxy(C₁₋₆

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alkyl) amino group, a C₁₋₆ alkylsulfonyl group, a C₁₋₆ alkylsulfonylamino group, a C₁₋₆ alkylsulfonylamino(C₁₋₆ alkyl) group, a carboxy group, a C₂₋₇ alkoxycarbonyl group, a sulfamoyl

group and -CON(R^J)R^K

R^J and R^K independently represent a hydrogen atom or a C₁₋₆ alkyl group which may have any 1 to 3 substituents selected from a hydroxy group, an amino group, a mono or di(C₁₋₆

alkyl)amino group, a C₂₋₇ alkoxycarbonyl group and a carbamoyl group;

or both of R^J and R^K bind together with the neighboring nitrogen atom to form an aliphatic cyclic amino group which may have any 1 to 3 substituents selected from a hydroxy group, an amino group, a mono or di(C1-6 alkyl)amino group, a C1-6 alkyl group, a hydroxy(C1-6 alkyl) group, a C2-7 alkoxycarbonyl group, a C2-7 alkoxycarbonyl(C1-6 alkyl) group and a carbamoyl group, or a pharmaceutically acceptable salt thereof, or a prodrug thereof.

9. (currently amended): A nitrogen-containing fused-ring derivative as claimed in claim 5 or 8, wherein R¹ represents a hydrogen atom, a C₁₋₆ alkyl group, a hydroxy(C₁₋₆ alkyl) group, or -Ja-CONH2; Ja represents a C1-6 alkylene group; R2 represents a hydrogen atom, or a pharmaceutically acceptable salt thereof, or a prodrug thereof.

(currently amended): A pharmaceutical composition comprising as an active ingredient a therapeutically effective amount of a nitrogen-containing fused-ring derivative as claimed in claim 1, or a pharmaceutically acceptable salt thereof, or a prodrug thereof.

Claims 11 - 16. (canceled).

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17. (original): A pharmaceutical composition as claimed in claim 10, wherein the

dosage form is sustained release formulation.

Claim 18. (canceled)...

19. (currently amended): A method for the inhibition of postprandial hyperglycemia,

which comprises administering an effective amount of a nitrogen-containing fused-ring

derivative as claimed in claim 1, or a pharmaceutically acceptable salt thereof, or a prodrug

thereof.

20. (currently amended): A method for the prevention or treatment of a disease

associated with hyperglycemia, which comprises administering an effective amount of a

nitrogen-containing fused-ring derivative as claimed in claim 1, or a pharmaceutically acceptable

salt thereof, or a prodrug thereof.

21. (currently amended): A method for the prevention or treatment as claimed in claim

20, wherein the disease associated with hyperglycemia is a disease selected from the group

consisting of diabetes, impaired glucose tolerance, diabetic complications, obesity,

hyperinsulinemia, hyperlipidemia, hypercholesterolemia, hypertriglyceridemia, lipid metabolism

disorder, atherosclerosis, hypertension, congestive heart failure, edema, hyperuricemia and gout.

22. (currently amended): A method for the inhibition of advancing impaired glucose

tolerance into diabetes in a subject, which comprises administering an effective amount of a

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nitrogen-containing fused-ring derivative as claimed in claim 1, or a pharmaceutically acceptable

salt thereof, or a prodrug thereof.

Claims 23-26 (canceled).

27. (original): A pharmaceutical composition as claimed in claim 10, which comprises

combination with at least one member selected from the group consisting of an insulin sensitivity

enhancer, a glucose absorption inhibitor, a biguanide, an insulin secretion enhancer, a SGLT2

inhibitor, an insulin or insulin analogue, a glucagon receptor antagonist, an insulin receptor

kinase stimulant, a tripeptidyl peptidase II inhibitor, a dipeptidyl peptidase IV inhibitor, a protein

tyrosine phosphatase-1B inhibitor, a glycogen phosphorylase inhibitor, a glucose-6-phosphatase

inhibitor, a fructose-bisphosphatase inhibitor, a pyruvate dehydrogenase inhibitor, a hepatic

gluconeogenesis inhibitor, D-chiroinsitol, a glycogen synthase kinase-3 inhibitor, glucagon-like

peptide-1, a glucagon-like peptide-1 analogue, a glucagon-like peptide-1 agonist, amylin, an

amylin analogue, an amylin agonist, an aldose reductase inhibitor, an advanced glycation

endproducts formation inhibitor, a protein kinase C inhibitor, a y-aminobutyric acid receptor

antagonist, a sodium channel antagonist, a transcript factor NF-kB inhibitor, a lipid peroxidase

inhibitor, an N-acetylated-α-linked-acid-dipeptidase inhibitor, insulin-like growth factor-I,

platelet-derived growth factor, a platelet-derived growth factor analogue, epidermal growth

factor, nerve growth factor, a carnitine derivative, uridine, 5-hydroxy-1-methylhydantoin, EGB-

761, bimoclomol, sulodexide, Y-128, antidiarrhoics, cathartics, a hydroxymethylglutaryl

coenzyme A reductase inhibitor, a fibrate, a \(\beta_3\)-adrenoceptor agonist, an acyl-coenzyme A

cholesterol acyltransferase inhibitor, probcol, a thyroid hormone receptor agonist, a cholesterol

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absorption inhibitor, a lipase inhibitor, a microsomal triglyceride transfer protein inhibitor, a

lipoxygenase inhibitor, a carnitine palmitoyl-transferase inhibitor, a squalene synthase inhibitor,

a low-density lipoprotein receptor enhancer, a nicotinic acid derivative, a bile acid sequestrant, a

sodium/bile acid cotransporter inhibitor, a cholesterol ester transfer protein inhibitor, an appetite

suppressant, an angiotensin-converting enzyme inhibitor, a neutral endopeptidase inhibitor, an

angiotensin II receptor antagonist, an endothelin-converting enzyme inhibitor, an endothelin

receptor antagonist, a diuretic agent, a calcium antagonist, a vasodilating antihypertensive agent,

a sympathetic blocking agent, a centrally acting antihypertensive agent, an α₂-adrenoceptor

agonist, an antiplatelets agent, a uric acid synthesis inhibitor, a uricosuric agent and a urinary

alkalinizer.

(canceled). Claim 28.

29. (original): A method for the inhibition of postprandial hyperglycemia as claimed in

claim 19, which comprises administering in combination with at least one member selected from

the group consisting of an insulin sensitivity enhancer, a glucose absorption inhibitor, a

biguanide, an insulin secretion enhancer, a SGLT2 inhibitor, an insulin or insulin analogue, a

glucagon receptor antagonist, an insulin receptor kinase stimulant, a tripeptidyl peptidase II

inhibitor, a dipeptidyl peptidase IV inhibitor, a protein tyrosine phosphatase-1B inhibitor, a

glycogen phosphorylase inhibitor, a glucose-6-phosphatase inhibitor, a fructose-bisphosphatase

inhibitor, a pyruvate dehydrogenase inhibitor, a hepatic gluconeogenesis inhibitor, D-

chiroinsitol, a glycogen synthase kinase-3 inhibitor, glucagon-like peptide-1, a glucagon-like

peptide-1 analogue, a glucagon-like peptide-1 agonist, amylin, an amylin analogue, an amylin

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agonist, an aldose reductase inhibitor, an advanced glycation endproducts formation inhibitor, a protein kinase C inhibitor, a γ-aminobutyric acid receptor antagonist, a sodium channel antagonist, a transcript factor NF-κB inhibitor, a lipid peroxidase inhibitor, an N-acetylated-αlinked-acid-dipeptidase inhibitor, insulin-like growth factor-I, platelet-derived growth factor, a platelet-derived growth factor analogue, epidermal growth factor, nerve growth factor, a carnitine derivative, uridine, 5-hydroxy-1-methylhydantoin, EGB-761, bimoclomol, sulodexide, Y-128, antidiarrhoics, cathartics, a hydroxymethylglutaryl coenzyme A reductase inhibitor, a fibrate, a β₃-adrenoceptor agonist, an acyl-coenzyme A cholesterol acyltransferase inhibitor, probcol, a thyroid hormone receptor agonist, a cholesterol absorption inhibitor, a lipase inhibitor, a microsomal triglyceride transfer protein inhibitor, a lipoxygenase inhibitor, a carnitine palmitoyl-transferase inhibitor, a squalene synthase inhibitor, a low-density lipoprotein receptor enhancer, a nicotinic acid derivative, a bile acid sequestrant, a sodium/bile acid cotransporter inhibitor, a cholesterol ester transfer protein inhibitor, an appetite suppressant, an angiotensinconverting enzyme inhibitor, a neutral endopeptidase inhibitor, an angiotensin II receptor antagonist, an endothelin-converting enzyme inhibitor, an endothelin receptor antagonist, a diuretic agent, a calcium antagonist, a vasodilating antihypertensive agent, a sympathetic blocking agent, a centrally acting antihypertensive agent, an α_2 -adrenoceptor agonist, an antiplatelets agent, a uric acid synthesis inhibitor, a uricosuric agent and a urinary alkalinizer.

30. (currently amended): A method for the prevention or treatment of a disease associated with hyperglycemia as claimed in claim 20, which comprises administering in combination with at least one member selected from the group consisting of an insulin sensitivity enhancer, a glucose absorption inhibitor, a biguanide, an insulin secretion enhancer, a SGLT2

inhibitor, an insulin or insulin analogue, a glucagon receptor antagonist, an insulin receptor kinase stimulant, a tripeptidyl peptidase II inhibitor, a dipeptidyl peptidase IV inhibitor, a protein tyrosine phosphatase-1B inhibitor, a glycogen phosphorylase inhibitor, a glucose-6-phosphatase inhibitor, a fructose-bisphosphatase inhibitor, a pyruvate dehydrogenase inhibitor, a hepatic gluconeogenesis inhibitor, D-chiroinsitol, a glycogen synthase kinase-3 inhibitor, glucagon-like peptide-1, a glucagon-like peptide-1 analogue, a glucagon-like peptide-1 agonist, amylin, an amylin analogue, an amylin agonist, an aldose reductase inhibitor, an advanced glycation endproducts formation inhibitor, a protein kinase C inhibitor, a y-aminobutyric acid receptor antagonist, a sodium channel antagonist, a transcript factor NF-kB inhibitor, a lipid peroxidase inhibitor, an N-acetylated-\alpha-linked-acid-dipeptidase inhibitor, insulin-like growth factor-I, platelet-derived growth factor, a platelet-derived growth factor analogue, epidermal growth factor, nerve growth factor, a carnitine derivative, uridine, 5-hydroxy-1-methylhydantoin, EGB-761, bimoclomol, sulodexide, Y-128, antidiarrhoics, cathartics, a hydroxymethylglutaryl coenzyme A reductase inhibitor, a fibrate, a \(\beta_3\)-adrenoceptor agonist, an acyl-coenzyme A cholesterol acyltransferase inhibitor, probcol, a thyroid hormone receptor agonist, a cholesterol absorption inhibitor, a lipase inhibitor, a microsomal triglyceride transfer protein inhibitor, a lipoxygenase inhibitor, a carnitine palmitoyl-transferase inhibitor, a squalene synthase inhibitor, a low-density lipoprotein receptor enhancer, a nicotinic acid derivative, a bile acid sequestrant, a sodium/bile acid cotransporter inhibitor, a cholesterol ester transfer protein inhibitor, an appetite suppressant, an angiotensin-converting enzyme inhibitor, a neutral endopeptidase inhibitor, an angiotensin II receptor antagonist, an endothelin-converting enzyme inhibitor, an endothelin receptor antagonist, a diuretic agent, a calcium antagonist, a vasodilating antihypertensive agent, a sympathetic blocking agent, a centrally acting antihypertensive agent, an α₂-adrenoceptor

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agonist, an antiplatelets agent, a uric acid synthesis inhibitor, a uricosuric agent and a urinary alkalinizer.

31. (original): A method for the inhibition of advancing impaired glucose tolerance into diabetes in a subject as claimed in claim 22, which comprises administering in combination with at least one member selected from the group consisting of an insulin sensitivity enhancer, a glucose absorption inhibitor, a biguanide, an insulin secretion enhancer, a SGLT2 inhibitor, an insulin or insulin analogue, a glucagon receptor antagonist, an insulin receptor kinase stimulant, a tripeptidyl peptidase II inhibitor, a dipeptidyl peptidase IV inhibitor, a protein tyrosine phosphatase-1B inhibitor, a glycogen phosphorylase inhibitor, a glucose-6-phosphatase inhibitor, fructose-bisphosphatase inhibitor, a pyruvate dehydrogenase inhibitor, a hepatic gluconeogenesis inhibitor, D-chiroinsitol, a glycogen synthase kinase-3 inhibitor, glucagon-like peptide-1, a glucagon-like peptide-1 analogue, a glucagon-like peptide-1 agonist, amylin, an amylin analogue, an amylin agonist, an aldose reductase inhibitor, an advanced glycation endproducts formation inhibitor, a protein kinase C inhibitor, a y-aminobutyric acid receptor antagonist, a sodium channel antagonist, a transcript factor NF-kB inhibitor, a lipid peroxidase inhibitor, an N-acetylated-\alpha-linked-acid-dipeptidase inhibitor, insulin-like growth factor-I, platelet-derived growth factor, a platelet-derived growth factor analogue, epidermal growth factor, nerve growth factor, a carnitine derivative, uridine, 5-hydroxy-1-methylhydantoin, EGB-761, bimoclomol, sulodexide, Y-128, antidiarrhoics, cathartics, a hydroxymethylglutaryl coenzyme A reductase inhibitor, a fibrate, a \(\beta_3\)-adrenoceptor agonist, an acyl-coenzyme A cholesterol acyltransferase inhibitor, probcol, a thyroid hormone receptor agonist, a cholesterol absorption inhibitor, a lipase inhibitor, a microsomal triglyceride transfer protein inhibitor, a

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lipoxygenase inhibitor, a carnitine palmitoyl-transferase inhibitor, a squalene synthase inhibitor,

a low-density lipoprotein receptor enhancer, a nicotinic acid derivative, a bile acid sequestrant, a

sodium/bile acid cotransporter inhibitor, a cholesterol ester transfer protein inhibitor, an appetite

suppressant, an angiotensin-converting enzyme inhibitor, a neutral endopeptidase inhibitor, an

angiotensin II receptor antagonist, an endothelin-converting enzyme inhibitor, an endothelin

receptor antagonist, a diuretic agent, a calcium antagonist, a vasodilating antihypertensive agent,

a sympathetic blocking agent, a centrally acting antihypertensive agent, an α2-adrenoceptor

agonist, an antiplatelets agent, a uric acid synthesis inhibitor, a uricosuric agent and a urinary

alkalinizer.

Claims 32-34 (canceled).

35. (new): A method as claimed in claim 30, wherein the disease associated with

hyperglycemia is the disease selected from the group consisting of diabetes, impaired glucose

hyperlipidemia, tolerance. diabetic complications, obesity, hyperinsulinemia,

hypercholesterolemia, hypertriglyceridemia, lipid metabolism disorder, atherosclerosis,

hypertension, congestive heart failure, edema, hyperuricemia and gout.